

# Ontology Matching

## OM-2009

Papers from the ISWC Workshop

### Introduction

Ontology matching is a key interoperability enabler for the Semantic Web, as well as a useful tactic in some classical data integration tasks. It takes the ontologies as input and determines as output an alignment, that is, a set of correspondences between the semantically related entities of those ontologies. These correspondences can be used for various tasks, such as ontology merging and data translation. Thus, matching ontologies enables the knowledge and data expressed in the matched ontologies to interoperate.

The workshop has three goals:

- To bring together leaders from *academia*, *industry* and *user institutions* to assess how academic advances are addressing real-world requirements. The workshop will strive to improve academic awareness of industrial and final user needs, and therefore, direct research towards those needs. Simultaneously, the workshop will serve to inform industry and user representatives about existing research efforts that may meet their requirements. The workshop will also investigate how the ontology matching technology is going to evolve.
- To conduct an extensive and rigorous evaluation of ontology matching approaches through the OAEI (Ontology Alignment Evaluation Initiative) 2009 campaign, <http://oaei.ontologymatching.org/2009>. This year's OAEI campaign introduces two new tracks about oriented alignments and about instance matching (a timely topic for the linked data community). Therefore, the ontology matching evaluation initiative itself will provide a solid ground for discussion of how well the current approaches are meeting business needs.
- To examine similarities and differences from database schema matching, which has received decades of attention but is just beginning to transition to mainstream tools.

We received 25 submissions for the technical track of the workshop. The program committee selected 6 submissions for oral presentation and 12 submissions for poster presentation. 16 matching systems participated in this year's OAEI campaign. Further information about the Ontology Matching workshop can be found at: <http://om2009.ontologymatching.org/>.

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<sup>1</sup><http://www.taslab.eu>  
<sup>2</sup><http://www.openlivinglabs.eu>  
<sup>3</sup><http://www.infotn.it>  
<sup>4</sup><http://www.seals-project.eu>

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